

105001-4112560

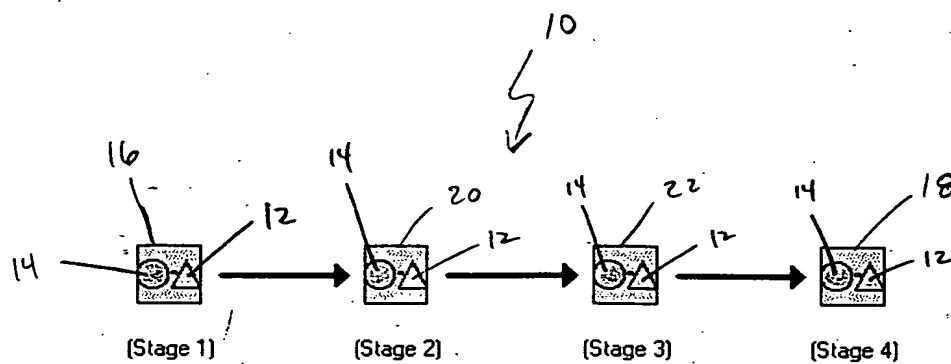


Figure 1

FIG. 2

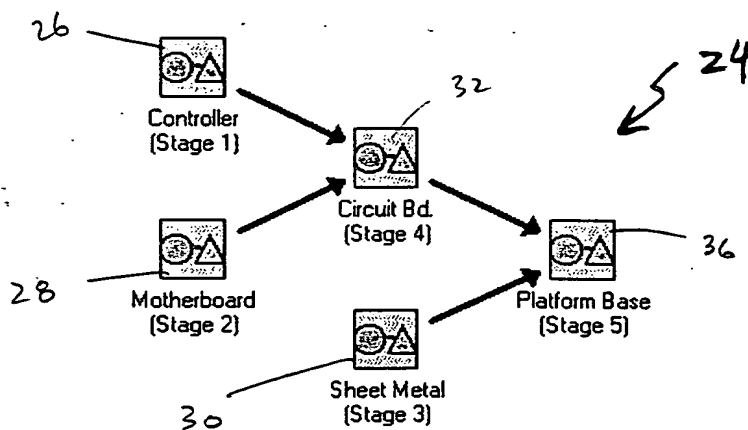


Fig. 2

FIG. 3

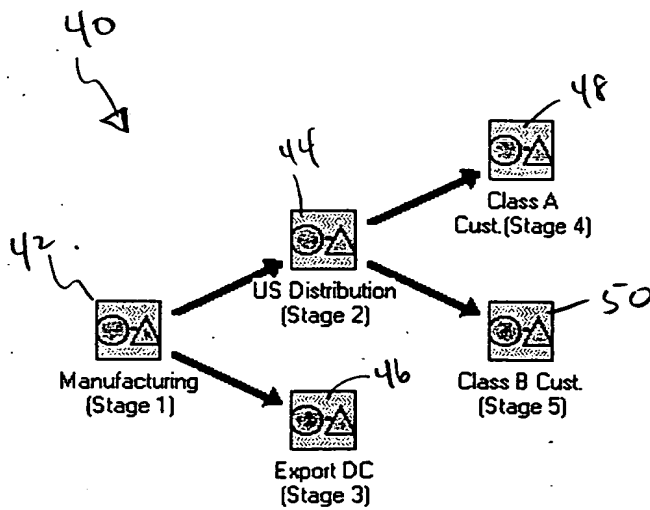


Fig. 3

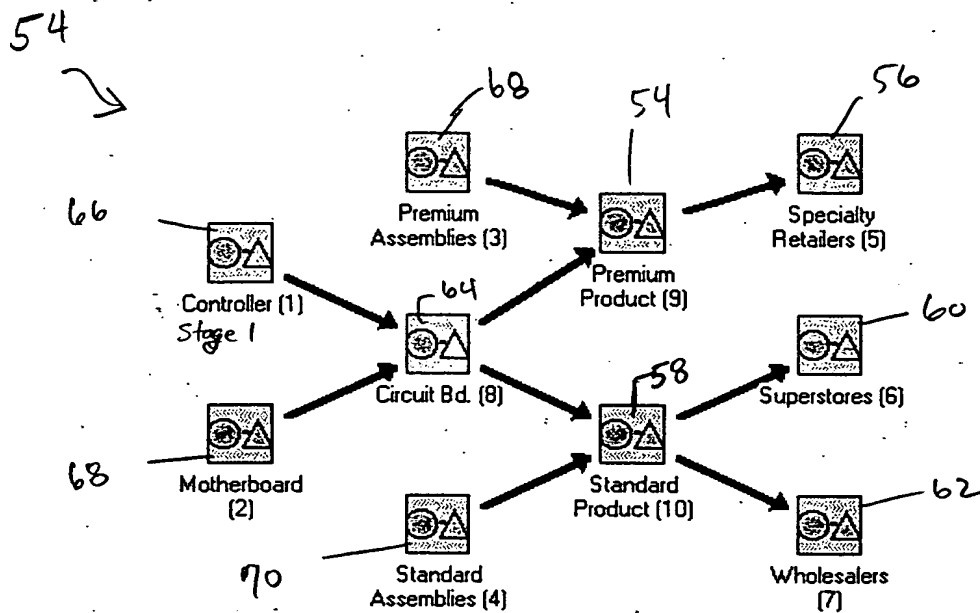


Fig. 4

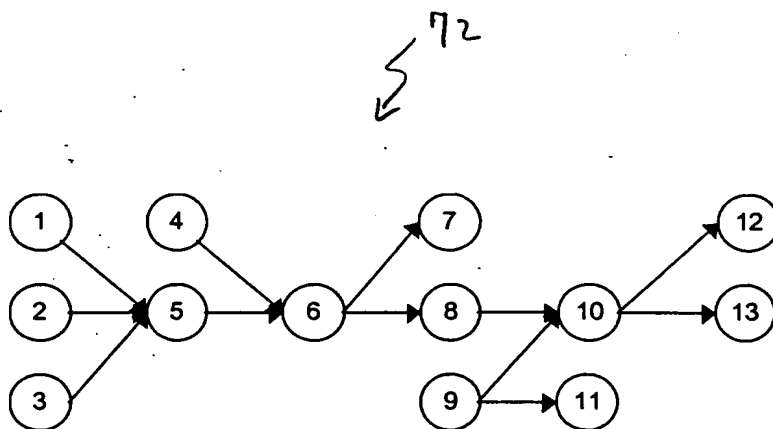


Fig. 5

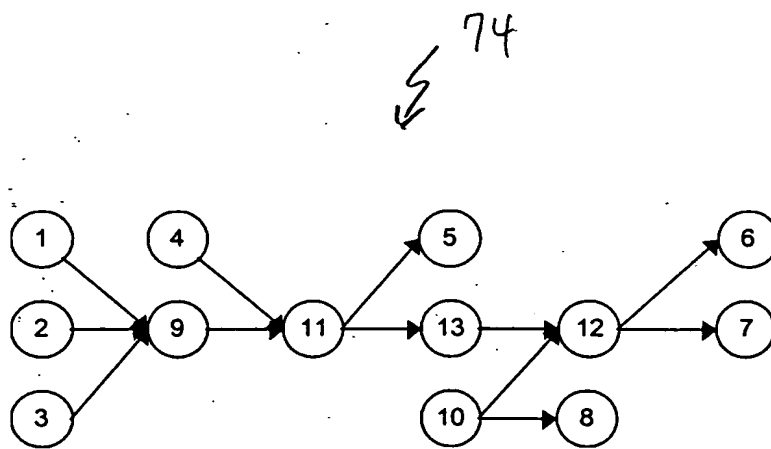


Figure 6

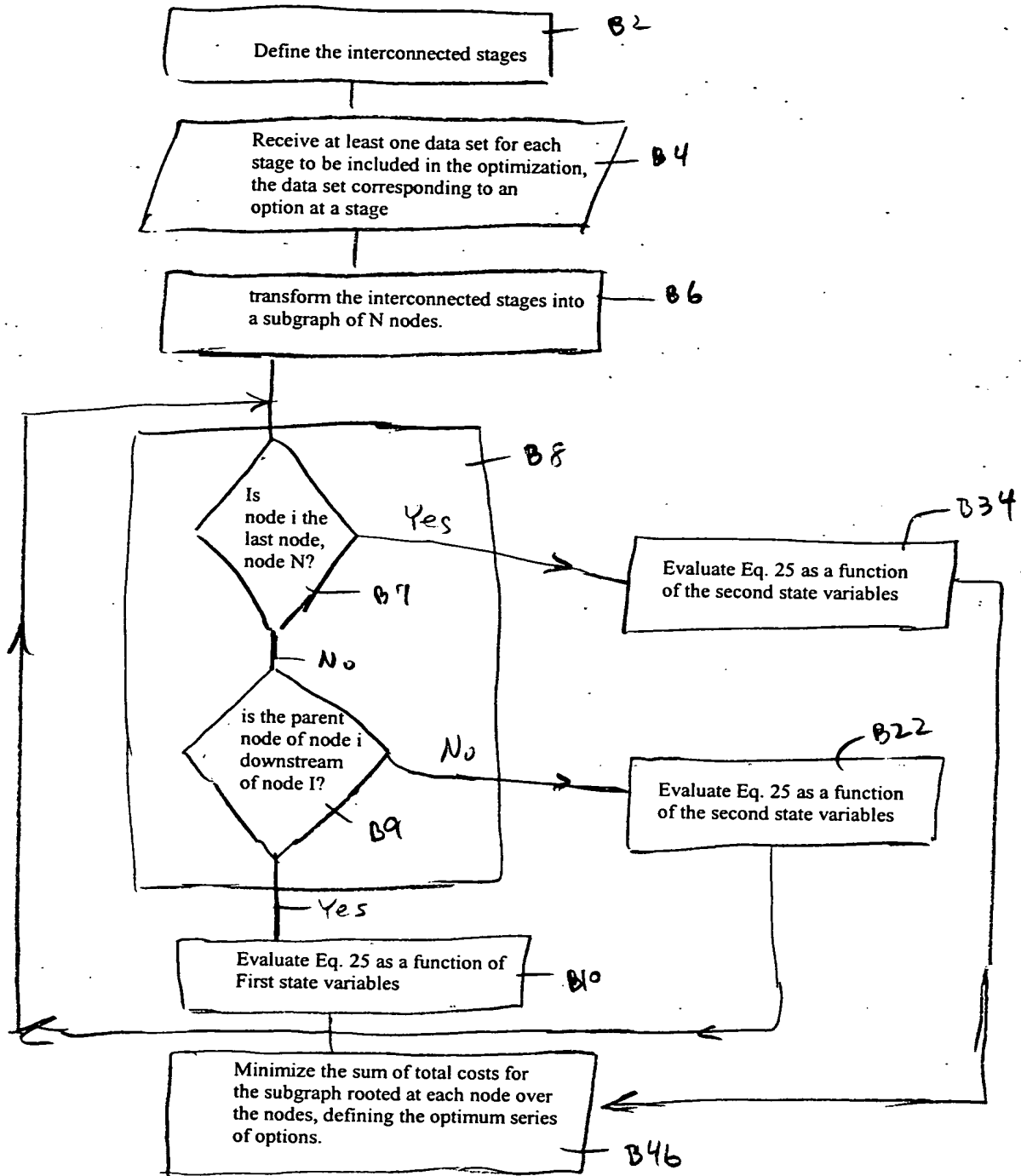


Fig. 7a

B10

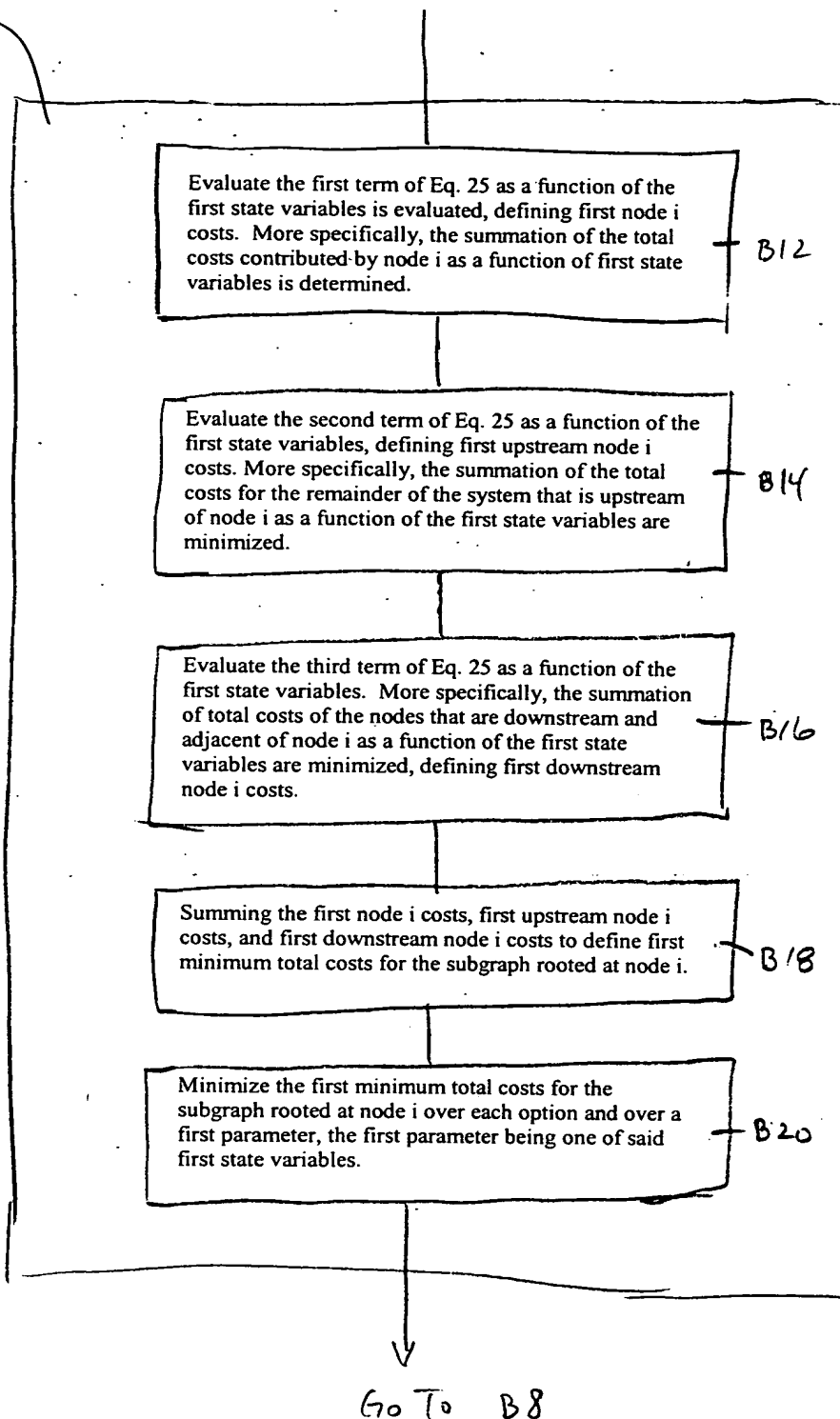


Fig. 7b

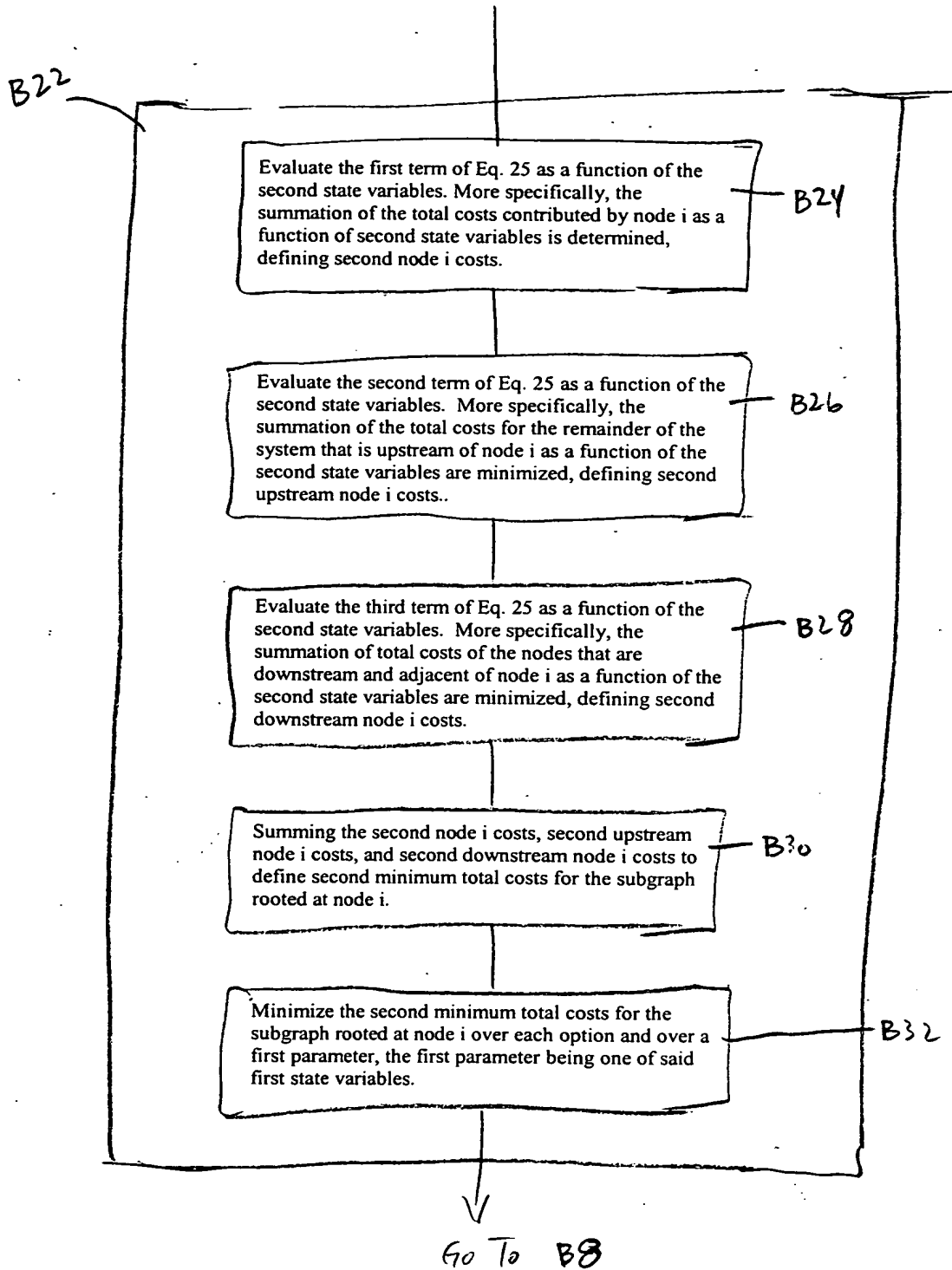


Fig. 7c

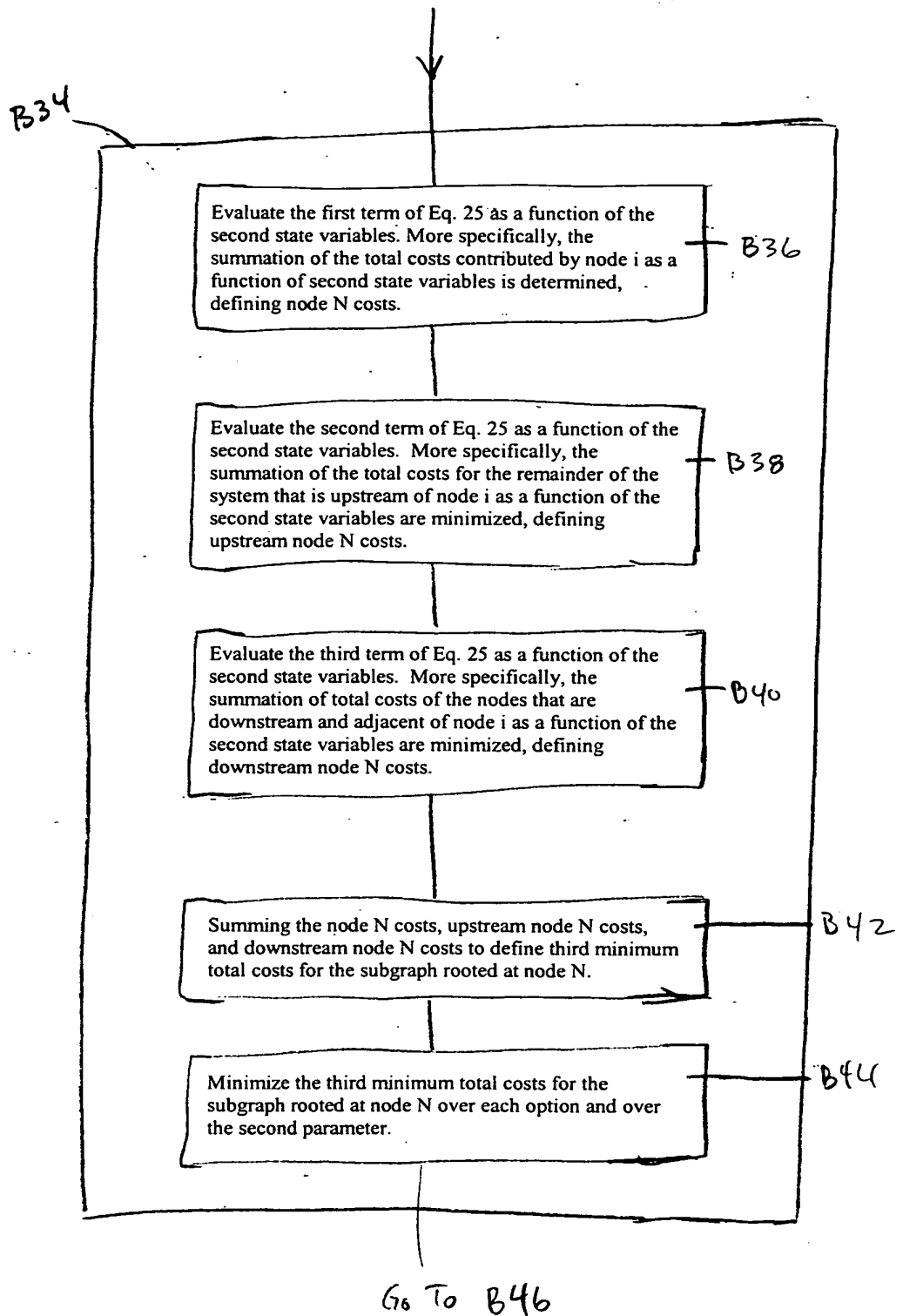


Fig. 7d

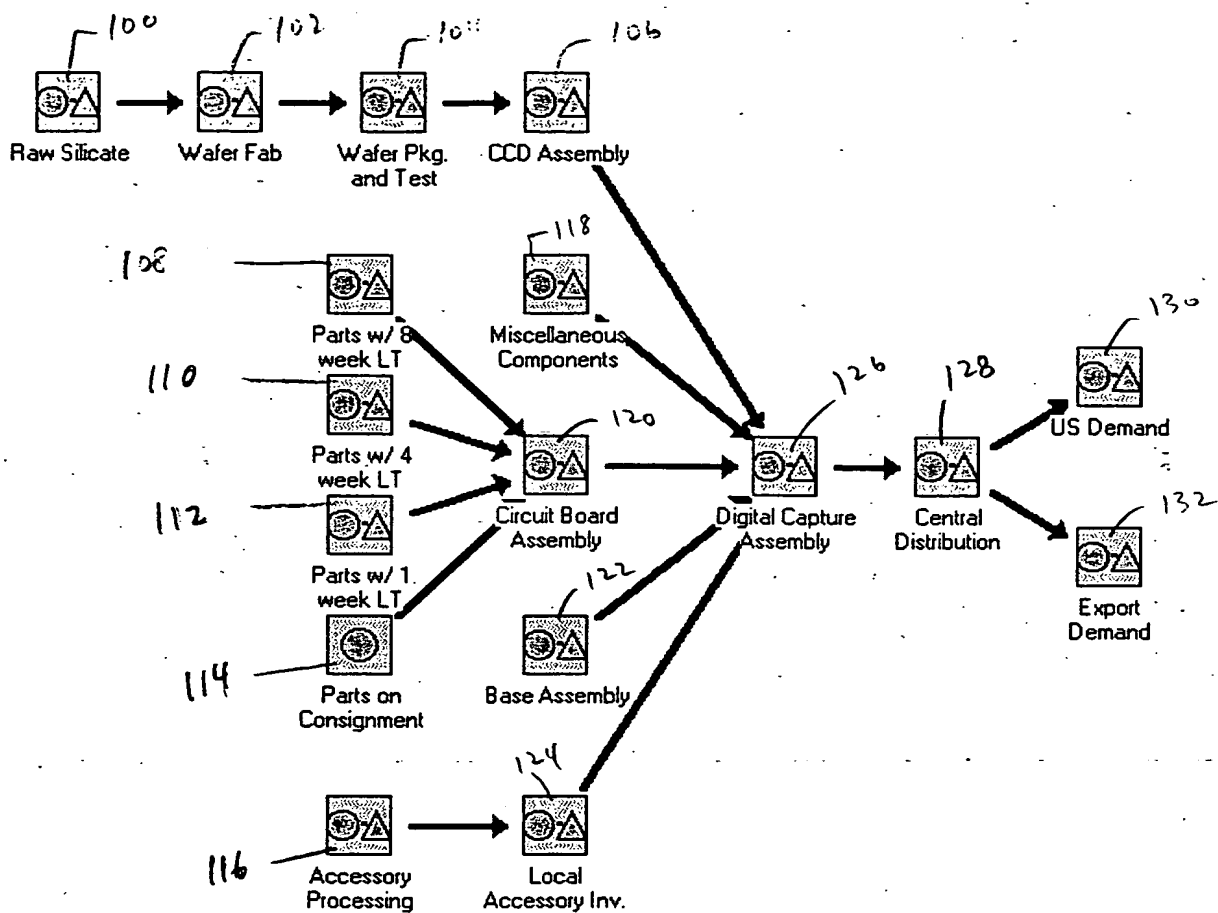


Fig. 8

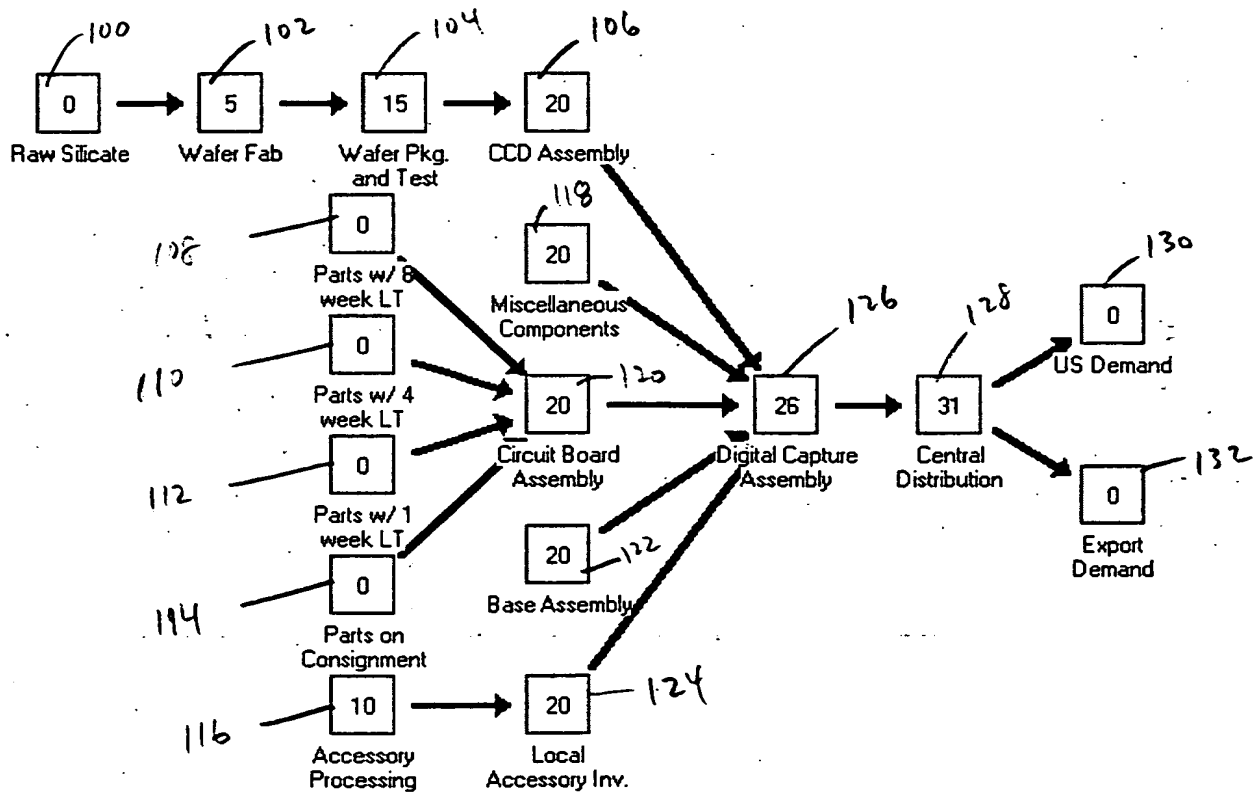


Fig. 9

105001-4442660

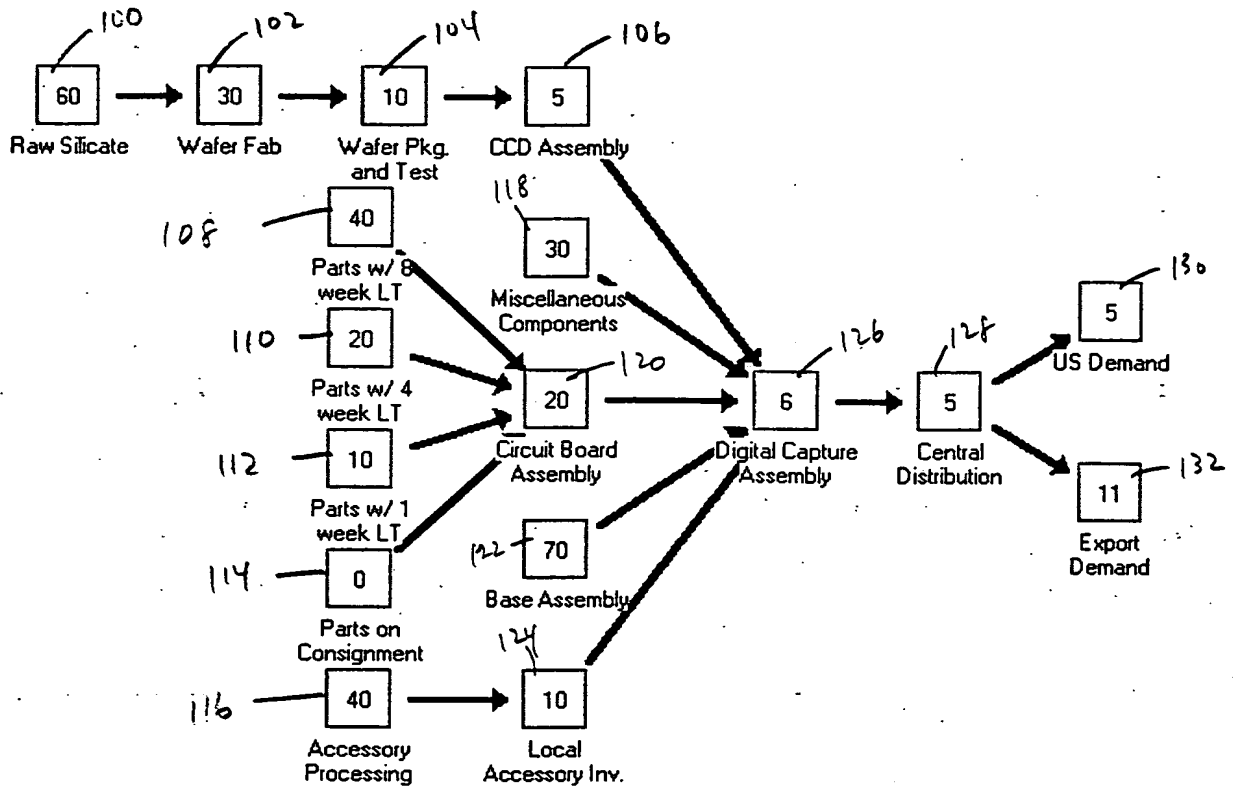


Fig. 10

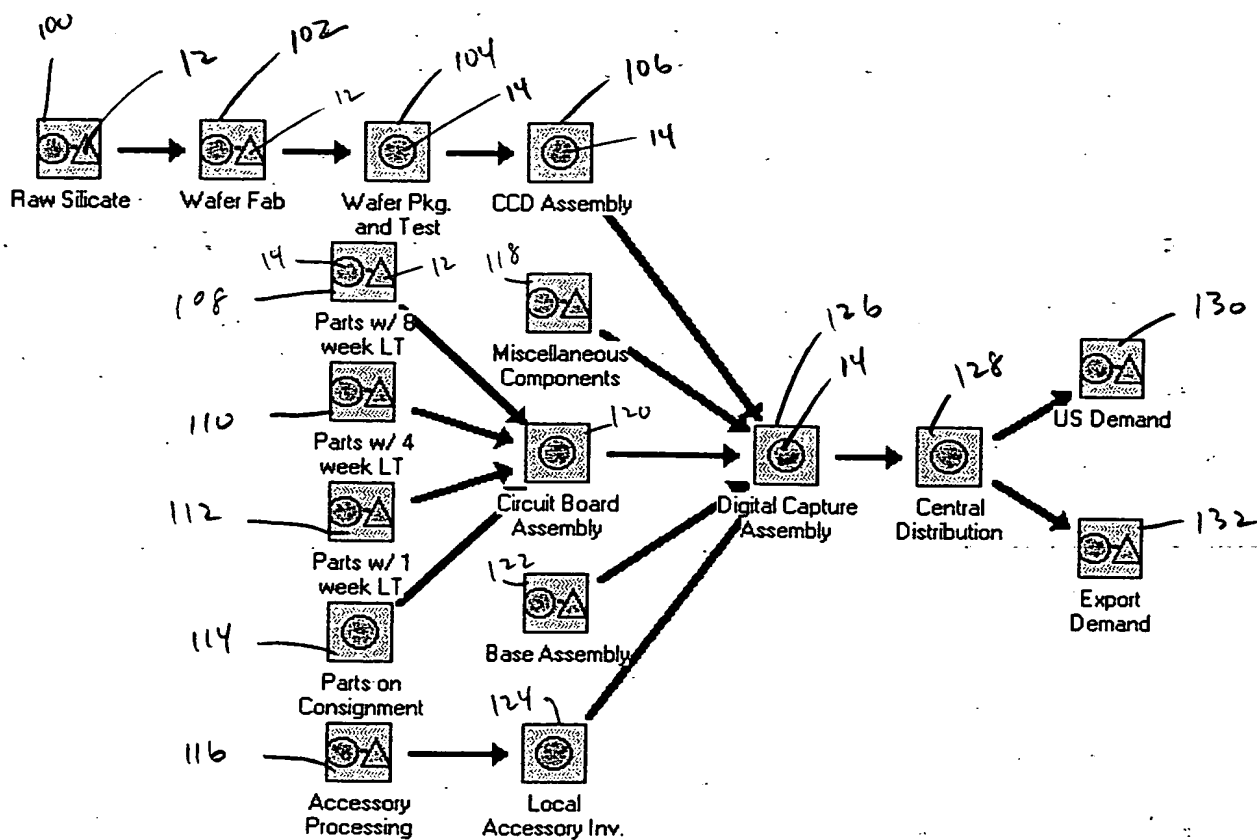


Fig. 11

105001-44772660

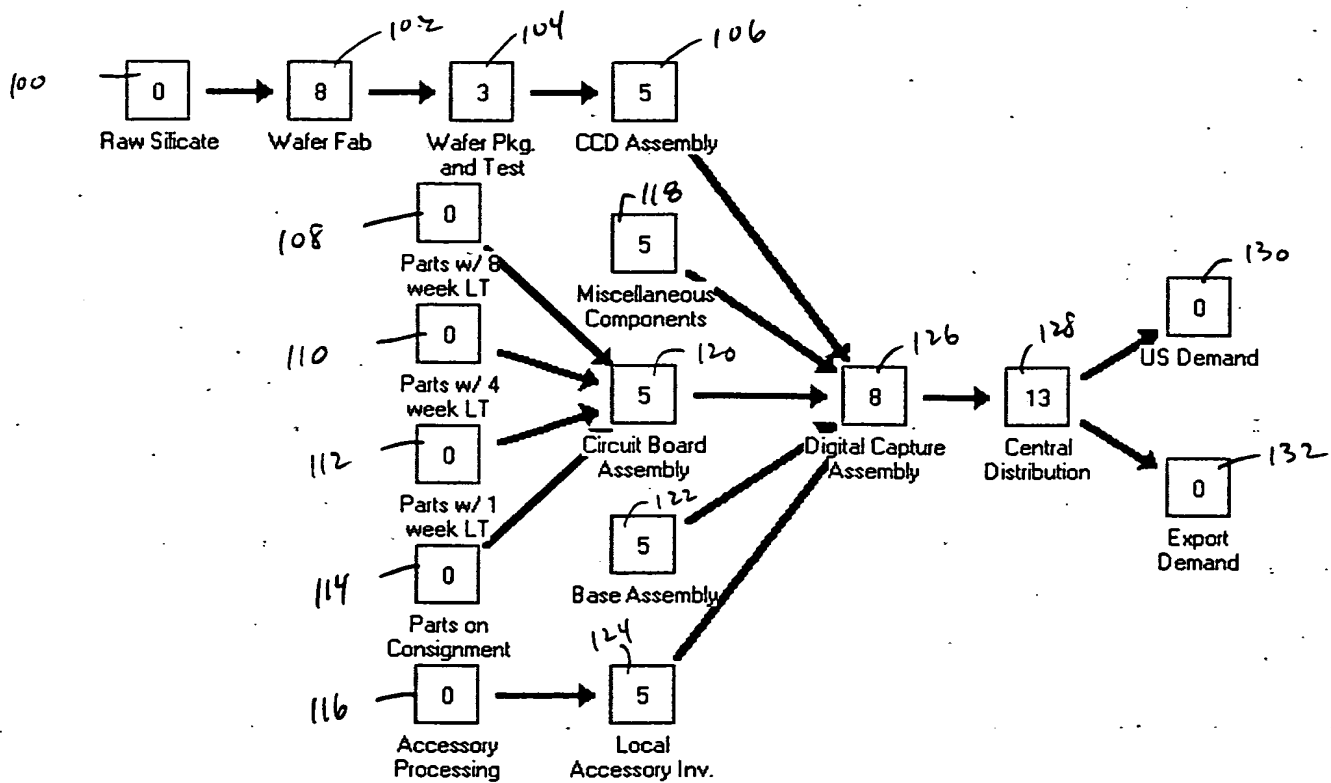


Fig. 12

105001-444460

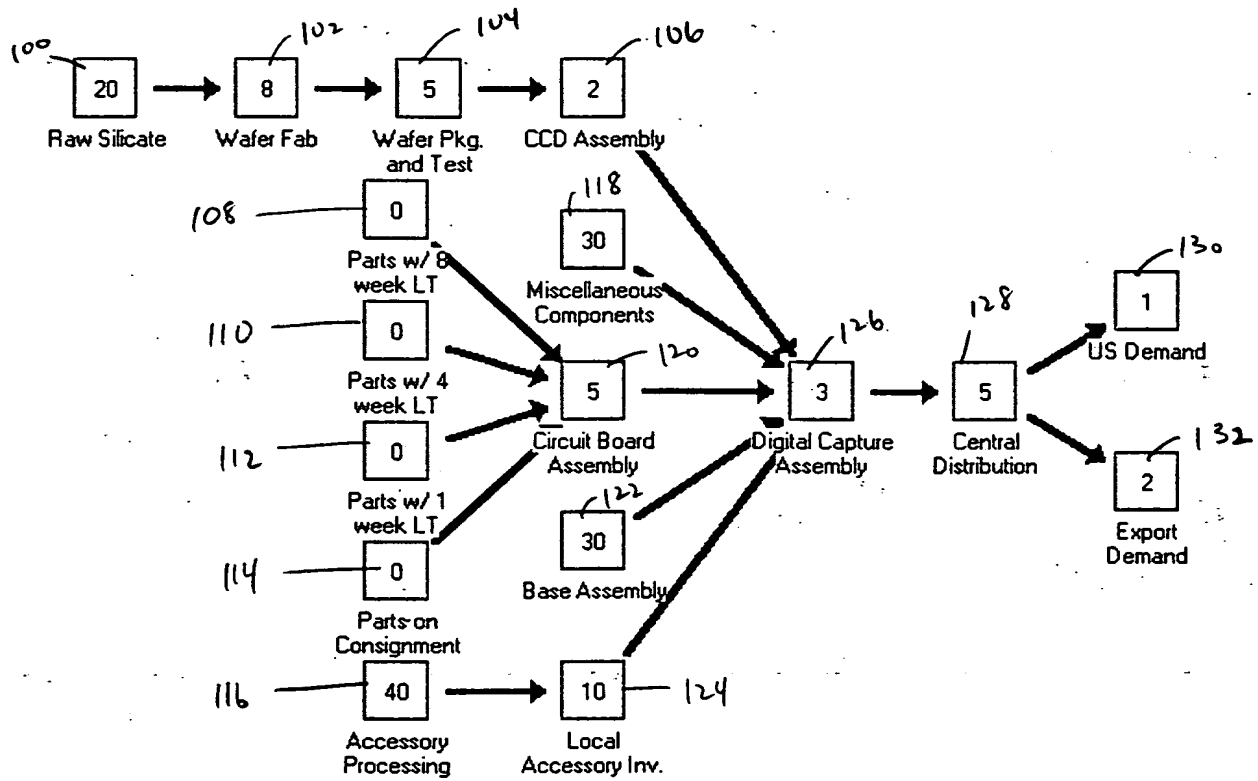


Fig. 13

TOP SECRET 44-4650

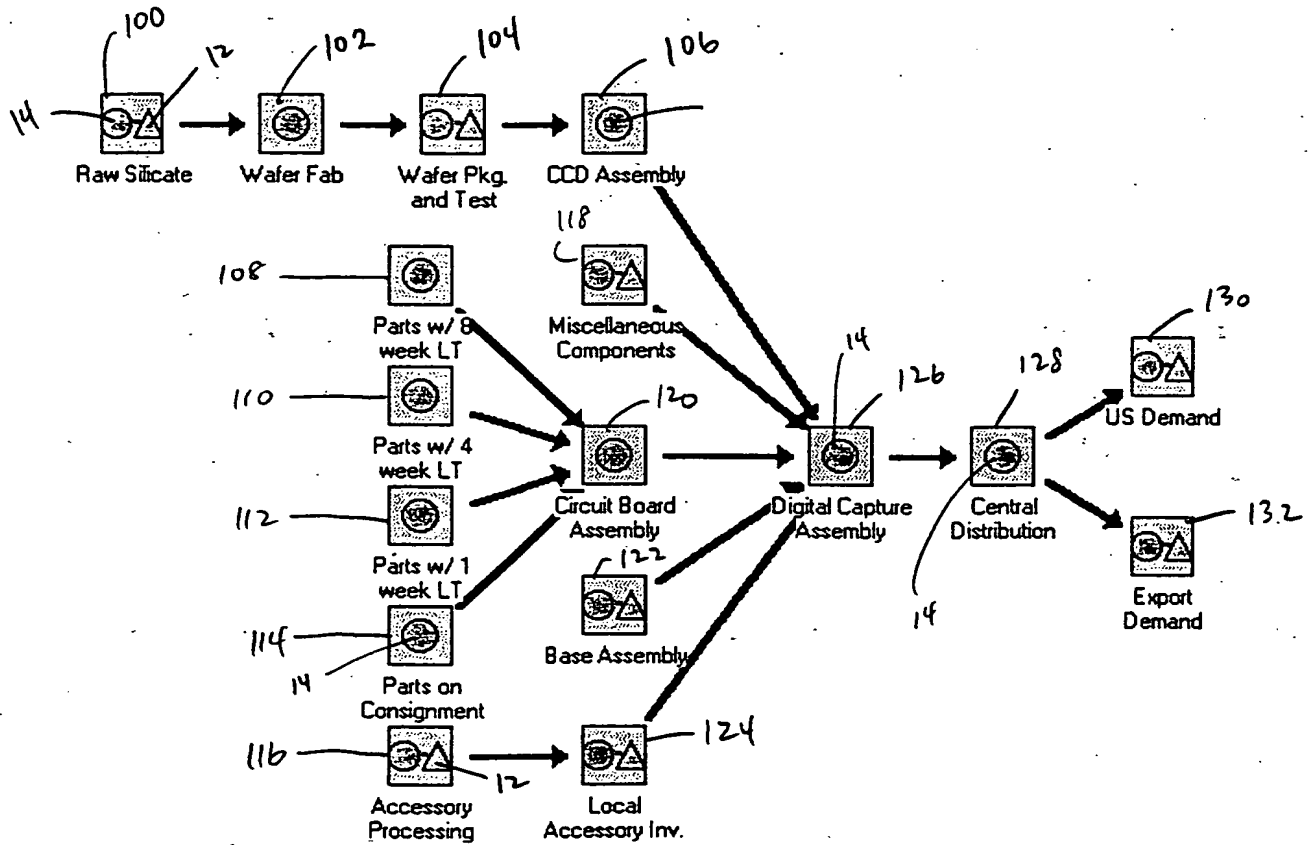


Fig. 14

TOP SECRET 477,660

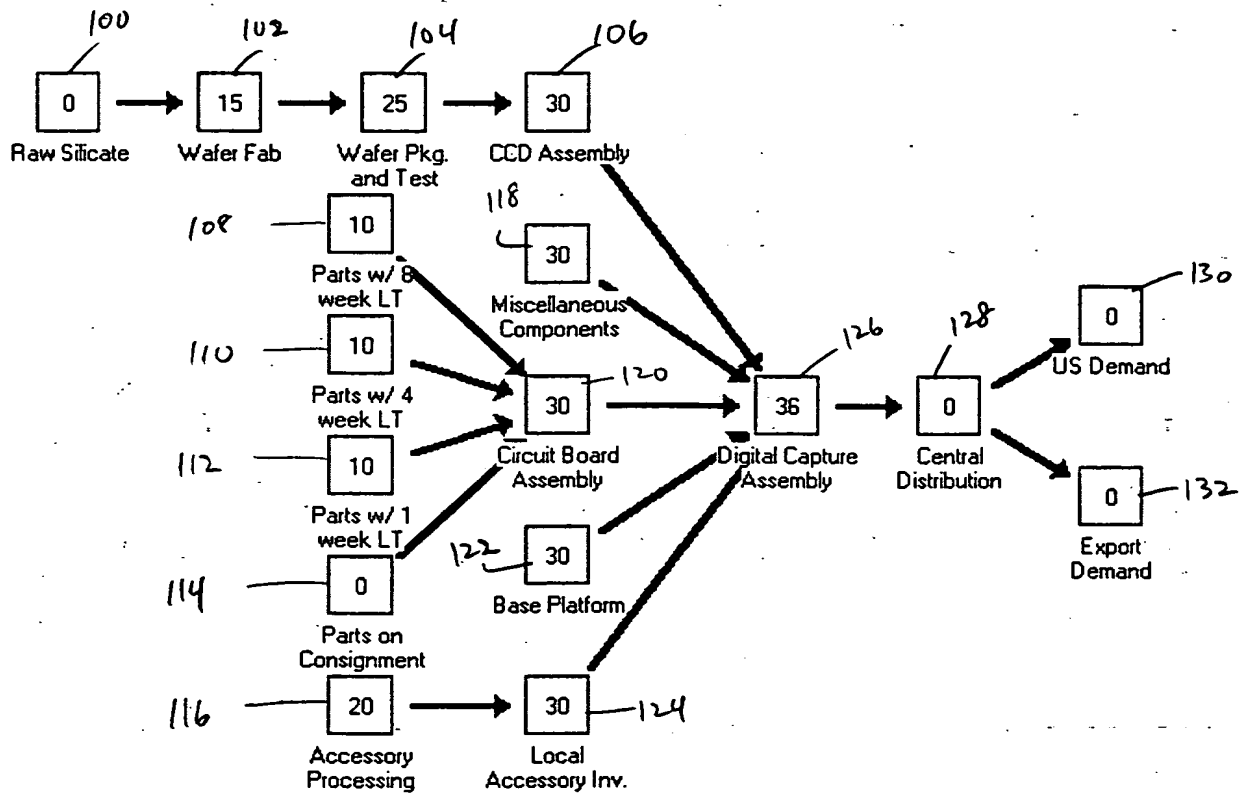


Figure 15

TTT 44660

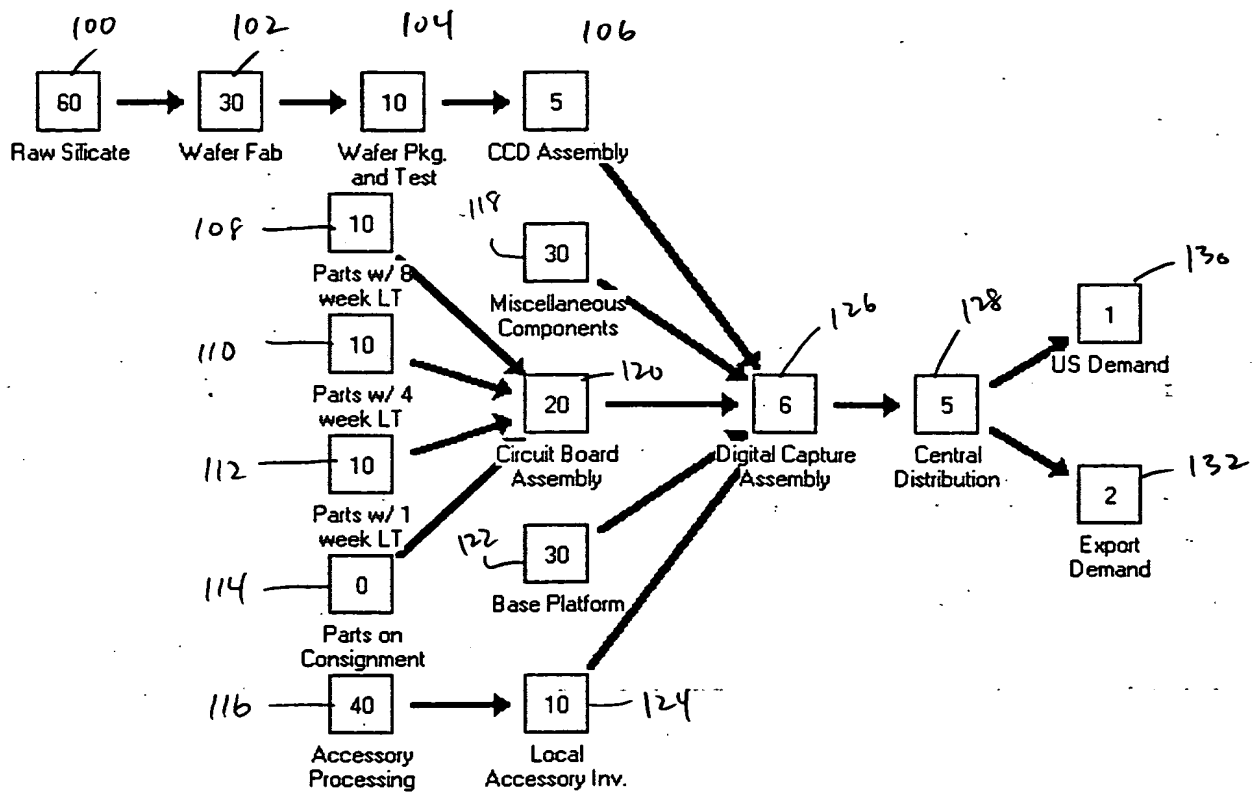


Figure 16

105001-4774650

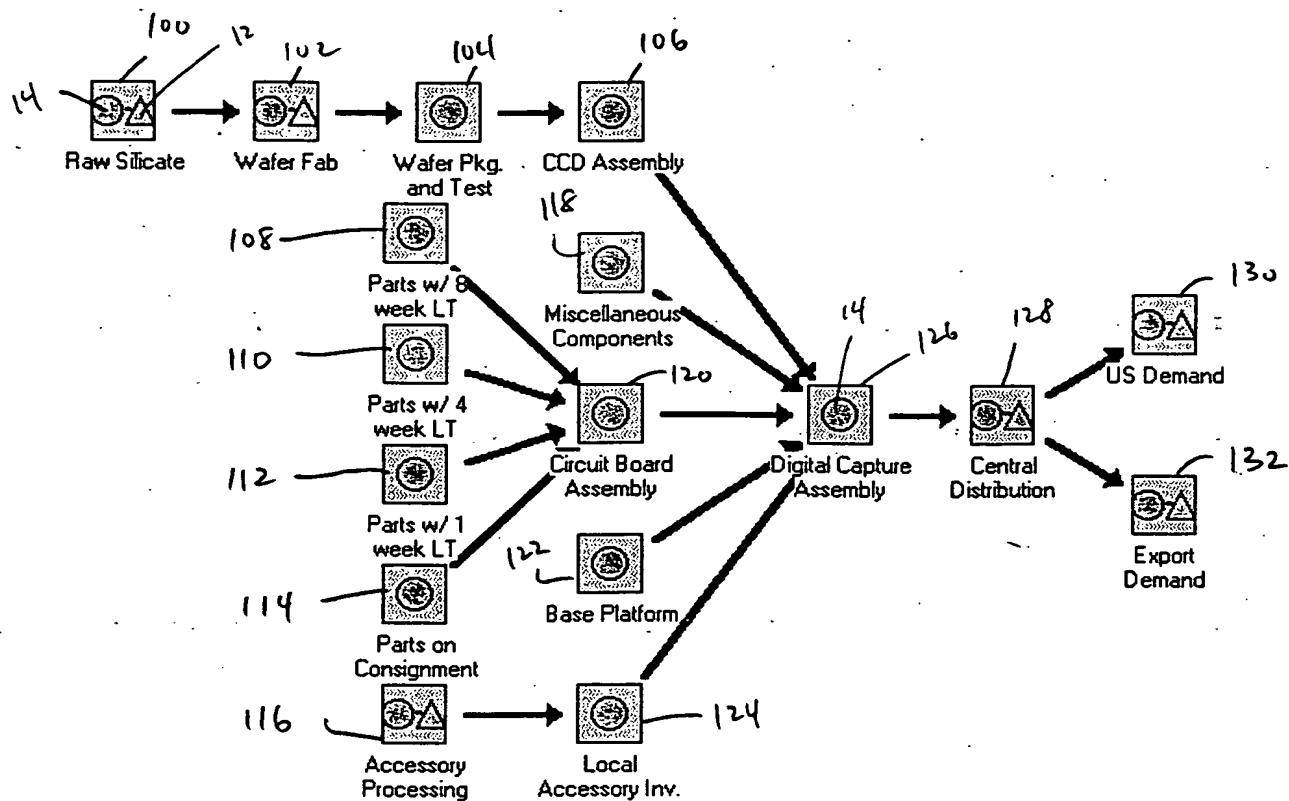


Figure 17

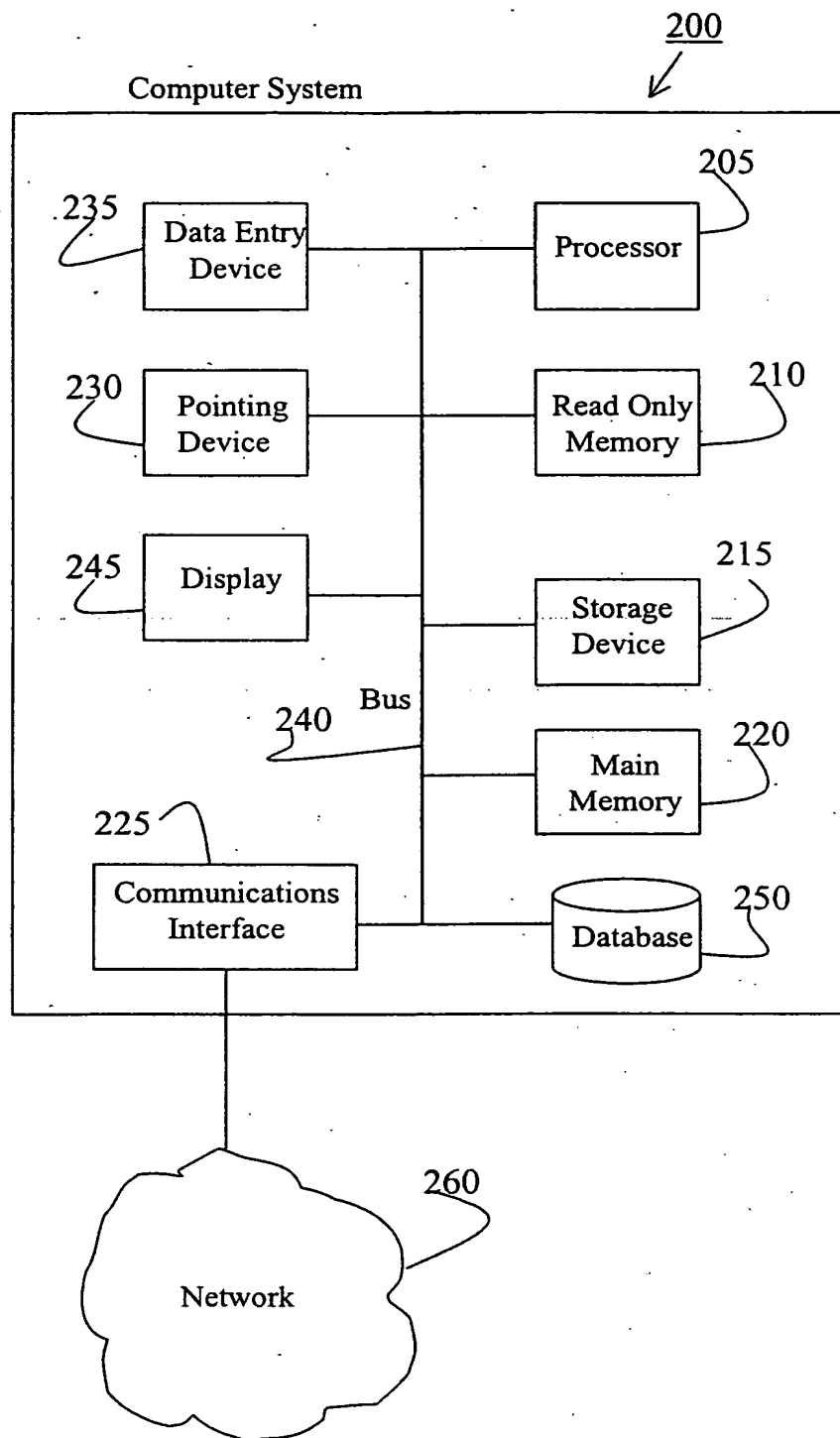


Fig. 18

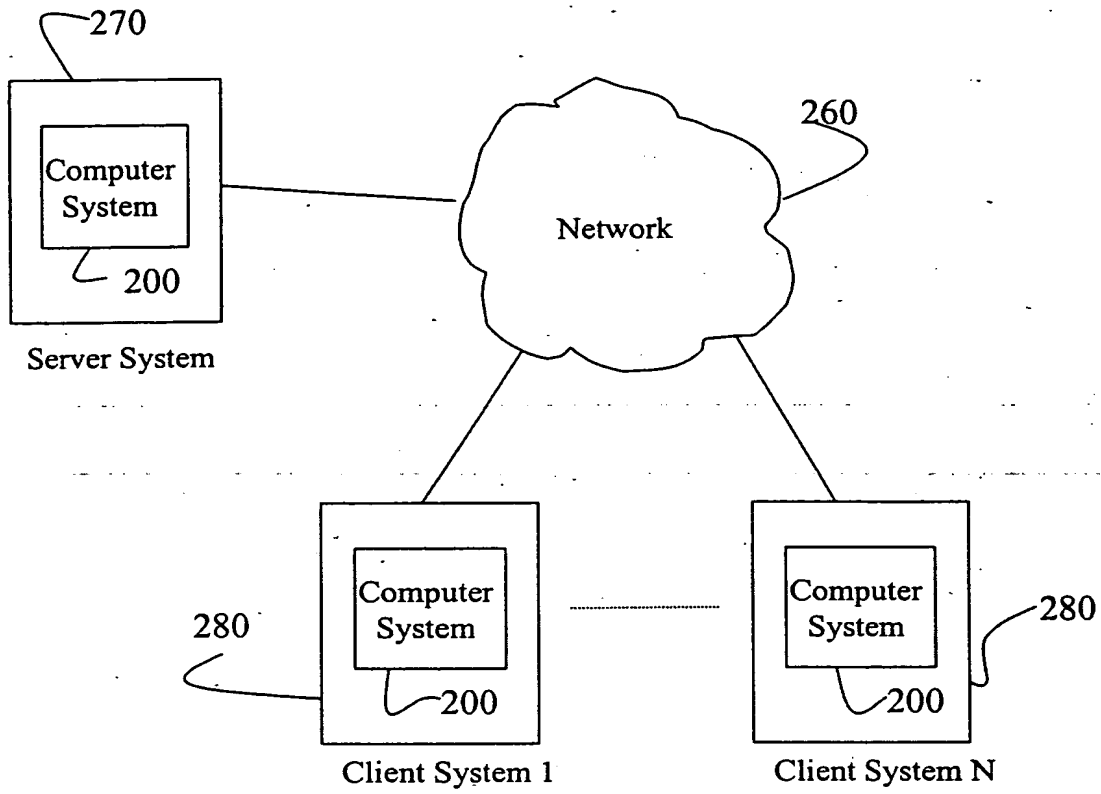


Fig. 19

optiant Eric Sample

optiant

View All Chains Create New Chain Users & Groups My Profile Download/Upload Log Out
7/25/2001 4:59 PM PowerChain Architect

VIEW ALL CHAINS

All Chains for Eric Sample
You may sort this table by clicking on the column headers. To search for a specific chain, click on the search box and press the search button.

Compare	Chain Name	Status	View Chain	Owner	Created	Last Change	Delete Chain
<input type="checkbox"/>	Copy of PowerChain Architect Case Study Version 1	Checked Out Eric Sample	• Edit	Eric Sample	June 26, 2001 6:04 PM	July 25, 2001 2:49 PM	<input type="checkbox"/>
<input type="checkbox"/>	New Supply Chain Version 1	Checked Out Eric Sample	• Edit	Eric Sample	July 25, 2001 2:49 PM	July 25, 2001 3:36 PM	<input type="checkbox"/>
<input type="checkbox"/>	PowerChain Architect Case Study Version 4	Checked Out Eric Sample	• Edit	Murthy Mathiprakesam	June 14, 2001 9:28 AM	June 26, 2001 6:04 PM	<input type="checkbox"/>
<input type="checkbox"/>	Compare						<input type="checkbox"/>

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~ 340

← 300

Fig. 20

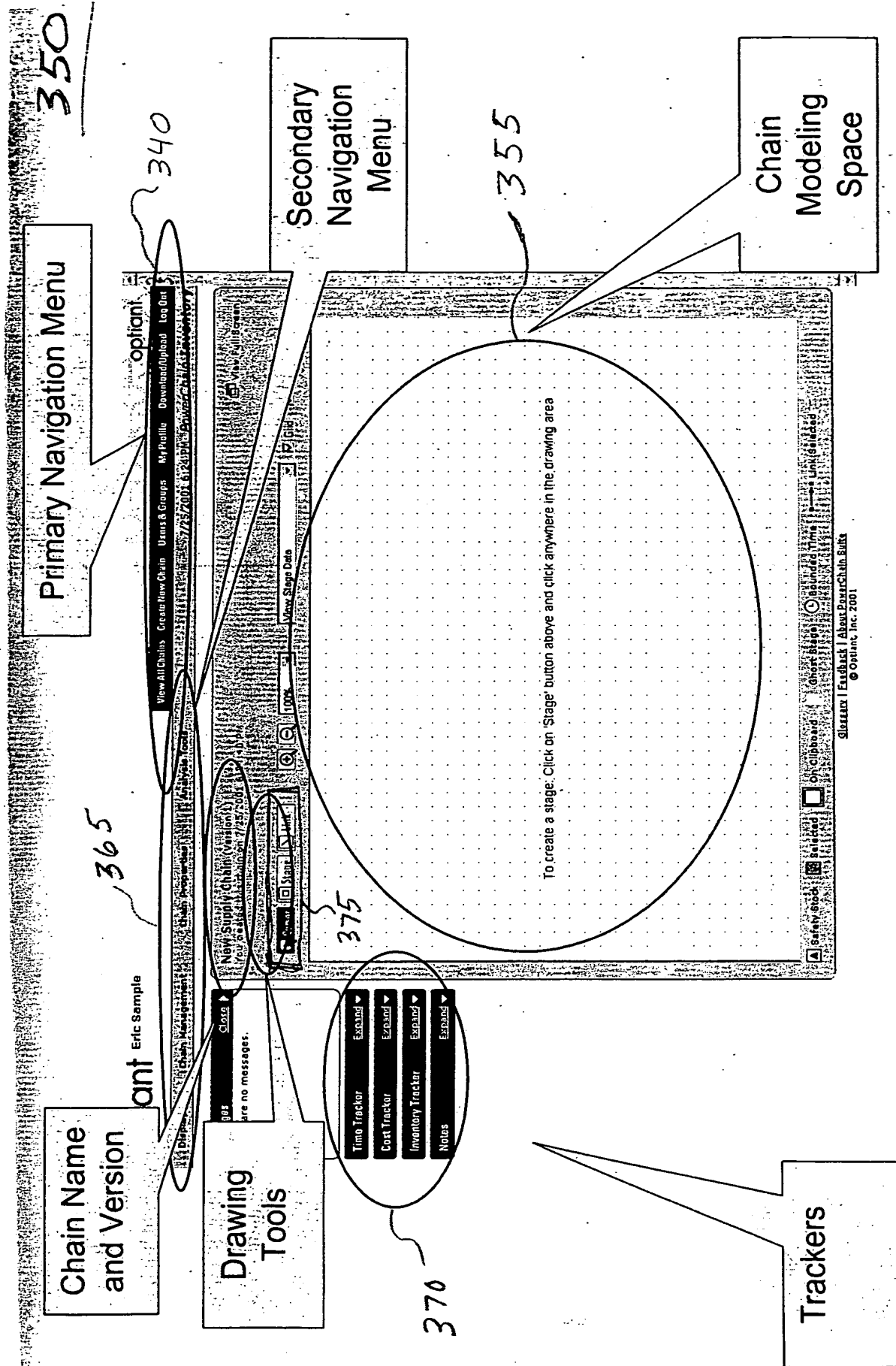


Fig. 21

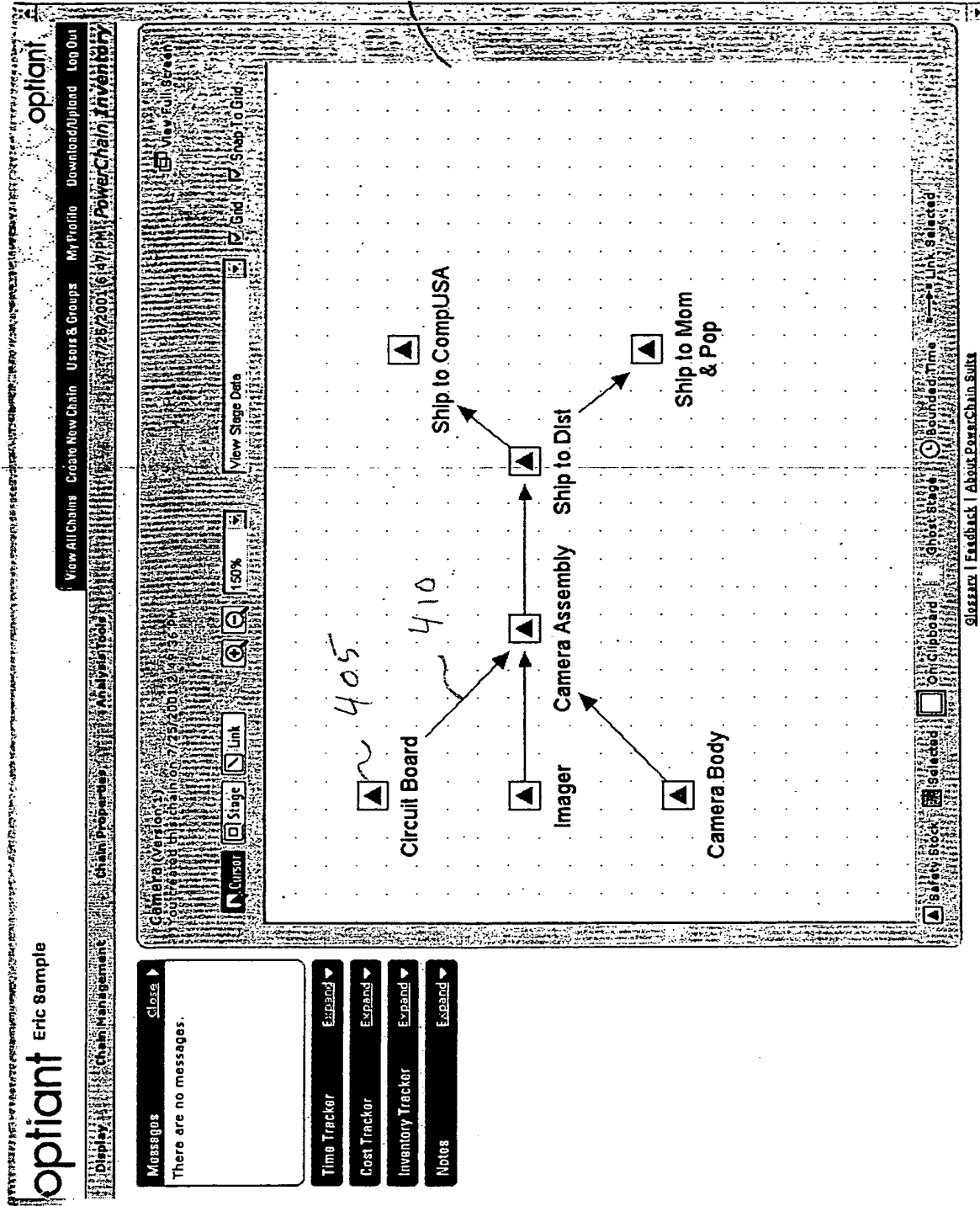
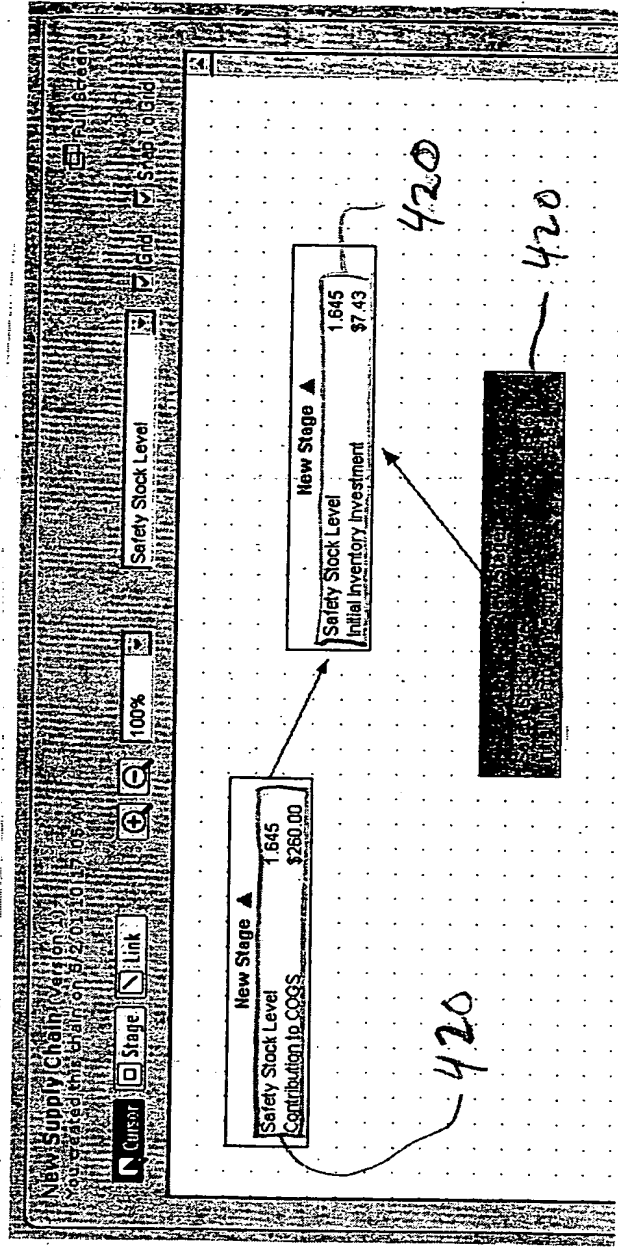


Fig. 22



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Fig. 23

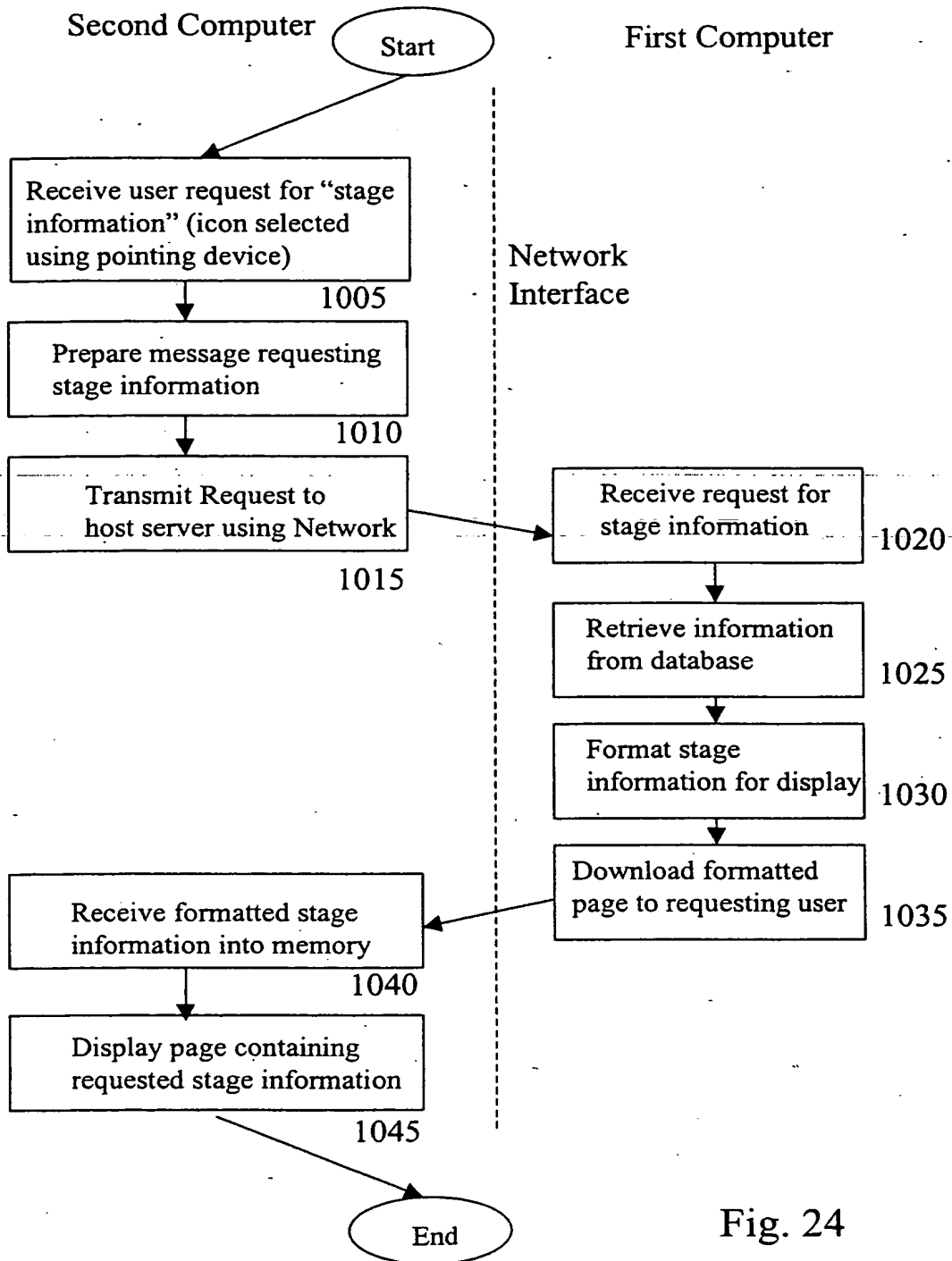


Fig. 24



optiant Eric Sample

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View All Chains Create New Chain Users & Groups My Profile Download/Upload Log Out

7/25/2001 5:14 PM PowerChain Architect

Display Chain Management Chain Properties Analysis Tools

Messages Expand

STAGE REPORT

Stage Name A Option Time Service Time Option Cost Class

New Stage	1	0	\$1.00	None Specified	<input type="checkbox"/>
New Stage	1	0	\$1.00	None Specified	<input type="checkbox"/>
New Stage	1	0	\$1.00	None Specified	<input type="checkbox"/>

Display Stage

- The Stage Report is accessed by going to Display | Stage Report
- The Link Report is accessed by going to Display | Link Report
- Allows rapid entry of stage information and rapid deletion of stages and links respectively

Options Summary

PowerChain Architect: New Supply Chain - Microsoft Internet Explorer

Stage Name: Distribution Close Save

Options Summary		Options Detail		Option Report		Stage Properties	
Option Name	Total Option Time (in days)	Total Option Cost	Holding Cost Rate	Include in optimization?	Currently Selected	Details	
Air Ship	1	\$10	20%	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="button" value="View/Edit"/>	
New Option	1	\$5	20%	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="button" value="View/Edit"/>	

Notes/Description:

600



Click to add more options	Total lead time of the option	Total cost of the option	Creation and Last Change Information	Whether to consider this option during optimization	Optimization selects the best option
---------------------------	-------------------------------	--------------------------	--------------------------------------	---	--------------------------------------

Fig. 26

Option Report Tab

PowerChain Architect: New Supply Chain - Microsoft Internet Explorer

Stage Name: Distribution Close Save

Options Summary Options Detail **Option Report** Stage Properties

A Stage Report shows a table of all the inputs and calculations for this stage, depending on which report is chosen. Every option gets calculated as if it were the currently selected option.

Options Included in Stage:

Air Ship
New Option

Select the report you would like to see:

☐ Time Values

☐ Inventory Levels

☐ Cost Values

☒ Show all Values

Create Report

~ 655

Select which values you want displayed

650
✓

Fig: 27

Stage Properties Summary Tab

PowerChain Architect: New Supply Chain - Microsoft Internet Explorer

Stage Name: Distribution Close Save

Options Summary	Options Detail	Option Report
Summary	Service	Demand
Cumulative Cost	\$1.00	
Safety Stock Cost	\$0.33	
Pipeline Stock Cost	\$0.20	
Total Stock Cost	\$0.53	
Total Inventory Investment	\$2.64	
Contribution to COGS	\$260.00	
Safety Stock Level (in units)	1.64	
Pipeline Stock Level (in units)	1.00	
Total Stock Level (in units)	2.64	
Longest Path Through Stage (in days)	1	
Stage Turnover Time (in days)	3	

All calculations shown are based on the currently selected option.

Include Stage in Optimization? ☐ Yes ☒ No

Include Stage in Cost Calculations? ☐ Yes ☒ No

Include Stage in Time Calculations? ☐ Yes ☒ No

Stage Class: None Specified View Stage Permissions

Stage Notes/Description:

Cost Metrics	Inventory Metrics	Time Metrics	Specify whether the stage affects optimization or calculations	Classify the stage into an echelon
---------------------	--------------------------	---------------------	---	---

700
✓

Stage Properties Demand Tab

PowerChain Architect: New Supply Chain - Microsoft Internet Explorer

Stage Name: Distribution

Options Summary Options Detail Option Report Stage Properties

Summary Service Demand

Average Demand

Variability ☒ Standard Deviation ☐ Coefficient of Variation 100%

Service Level %

Power %

View Demand Matrix in Full Screen Mode

Number of days out to show:

Stage Notes/Description

Average Demand

Uncertainty of Demand

End Customer Service Level

View Demand Matrix

Cost Tracker

optiant
Eric Sample

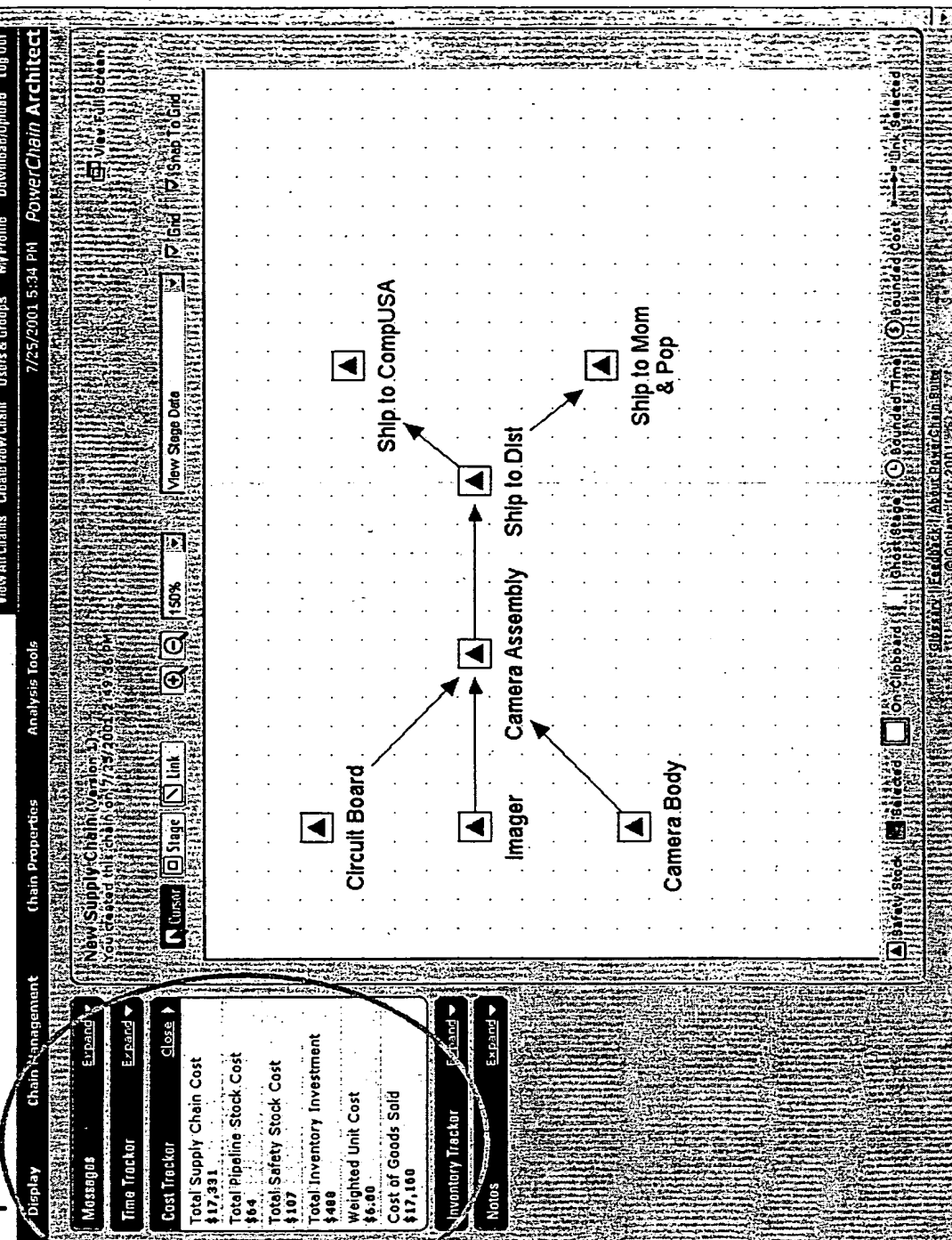
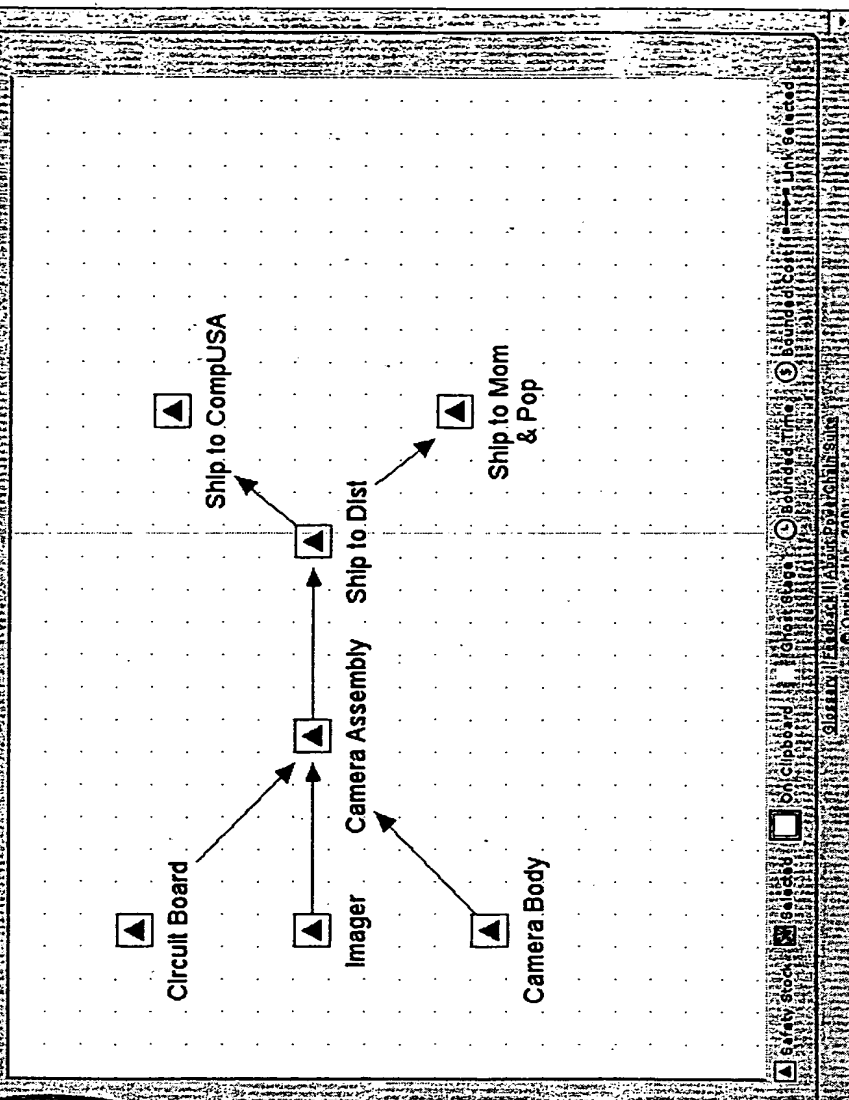


Fig. 31



105007-47772560

optiant Eric Sample

optiant

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6/26/2001 6:05 PM PowerChain Architect

COMPARE CHAINS

Name	Total Safety Stock Cost	Total Pipeline Stock Cost	Total Total Cost	Total Inventory Investment	Total Cost of goods sold	Total Supply Weighted Chain Cost	Total Unit Cost	Total Safety Stock Level	Total Inventory Turns	Total Cycle Time Unit	Base Time Unit	Horizon Time Unit	Number of Stages
Copy of PowerChain Architect Case Study	\$164,005.14	\$594,601.66	\$758,606.82	\$2,427,674.61	\$17,872,712.00	\$18,631,318.82	\$3,617.96	410.87	7.36	120	day	year	17
PowerChain Architect Case Study	\$137,511.21	\$427,612.86	\$565,124.07	\$1,921,746.91	\$17,848,012.00	\$18,413,136.07	\$3,612.96	402.30	9.29	113	day	year	16

optiant PowerChain Architect Case Study
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Fig. 33

900
↙

905
910
915

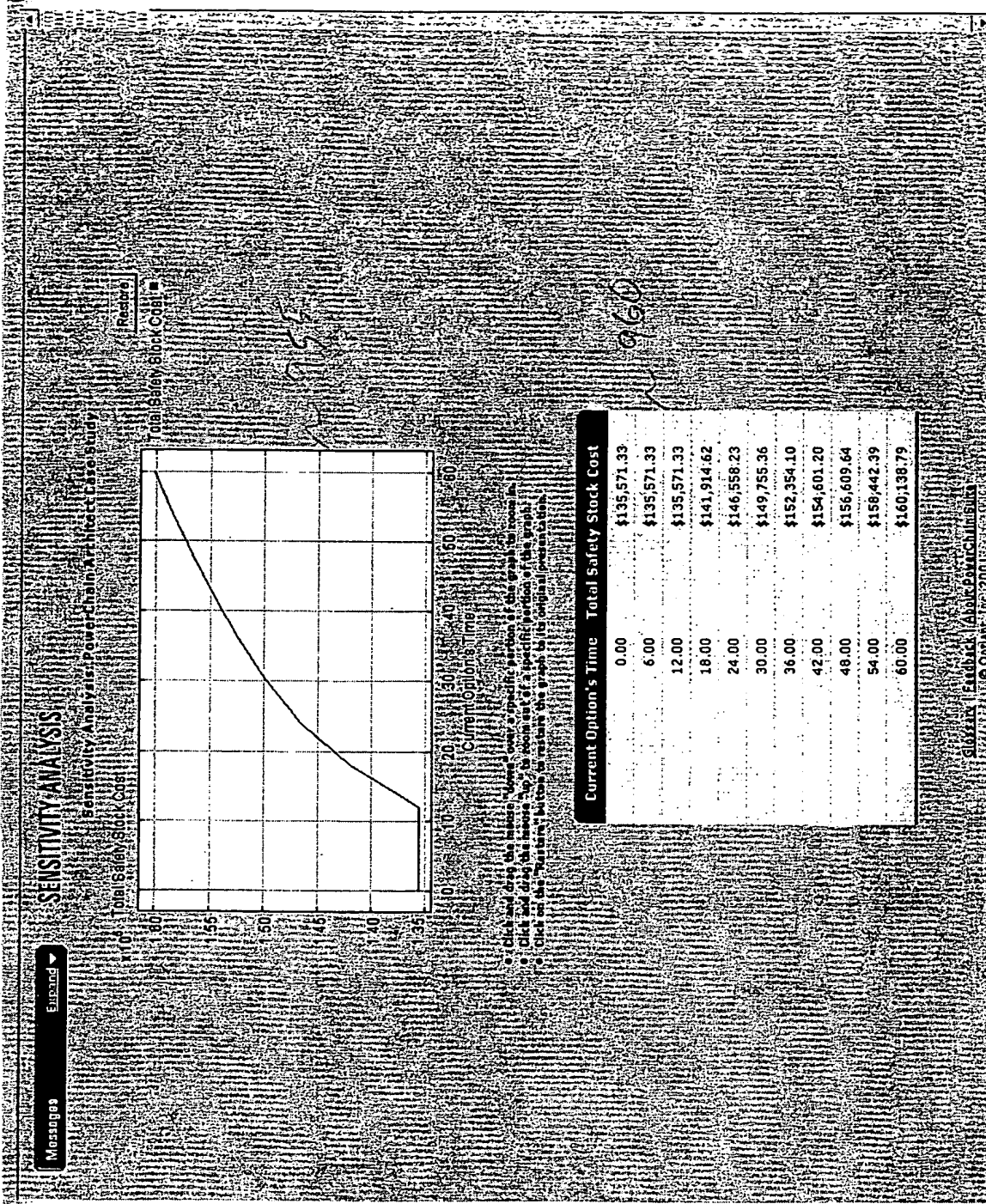


Fig. 34

1100

Second Computer

First Computer

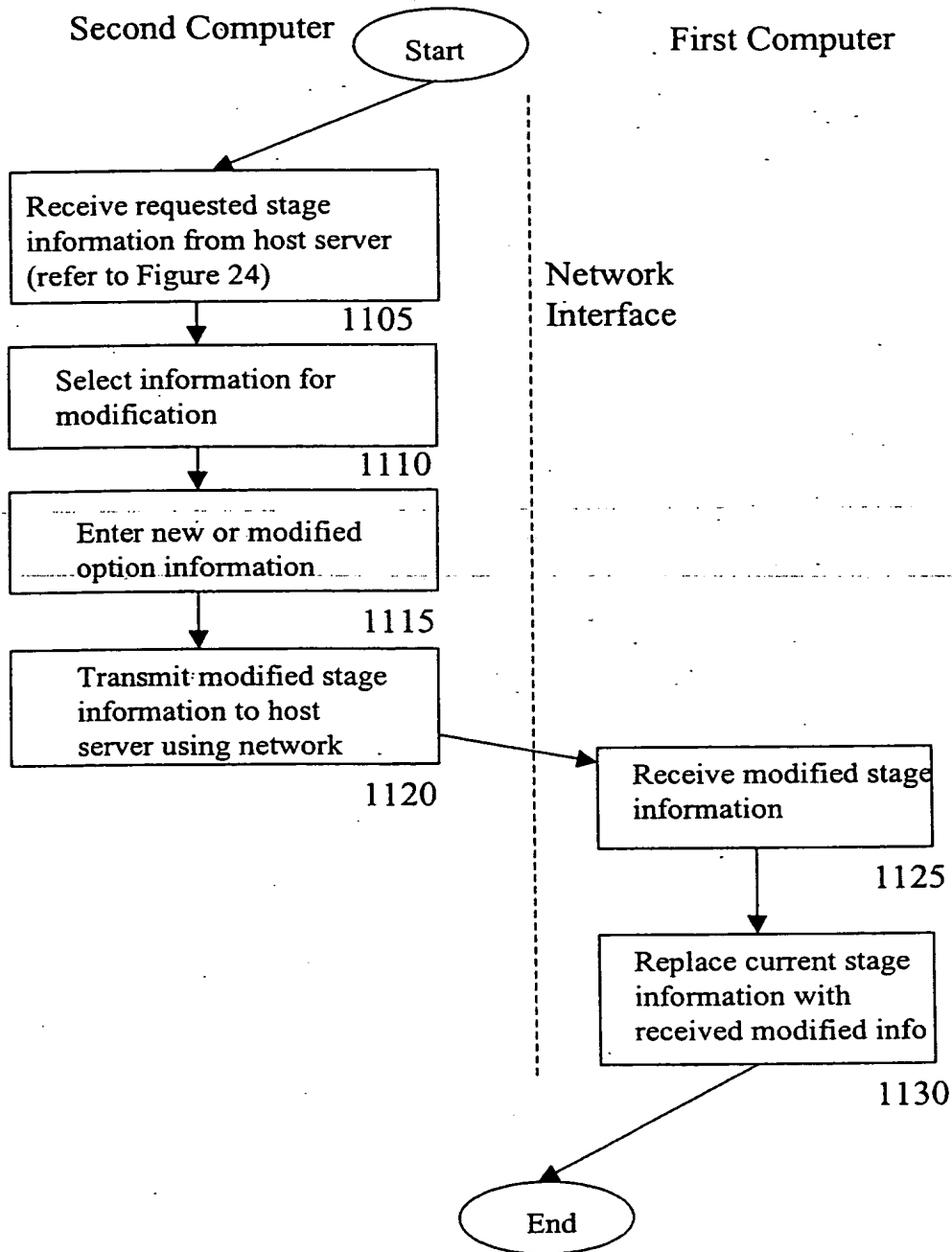


Fig. 35

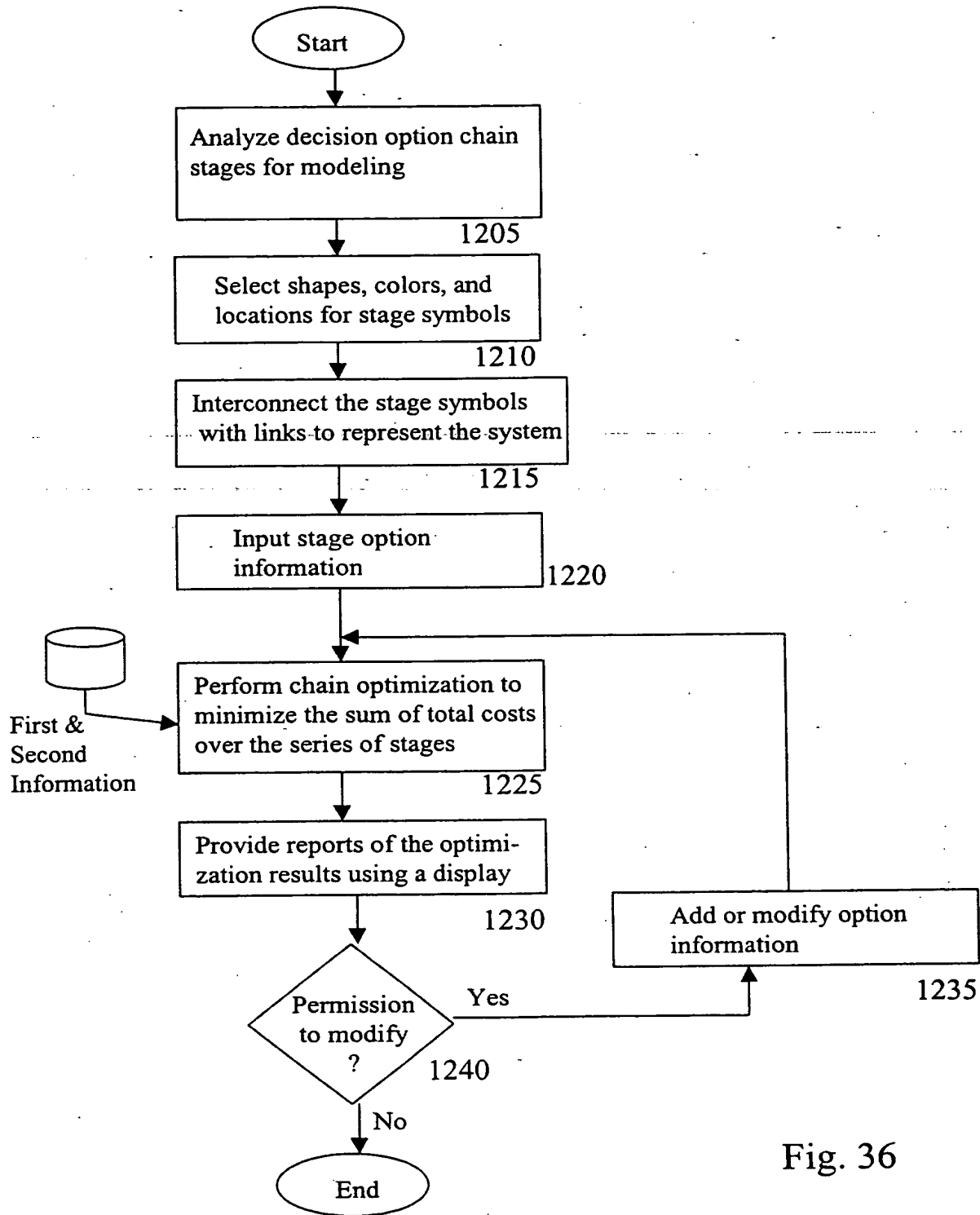


Fig. 36

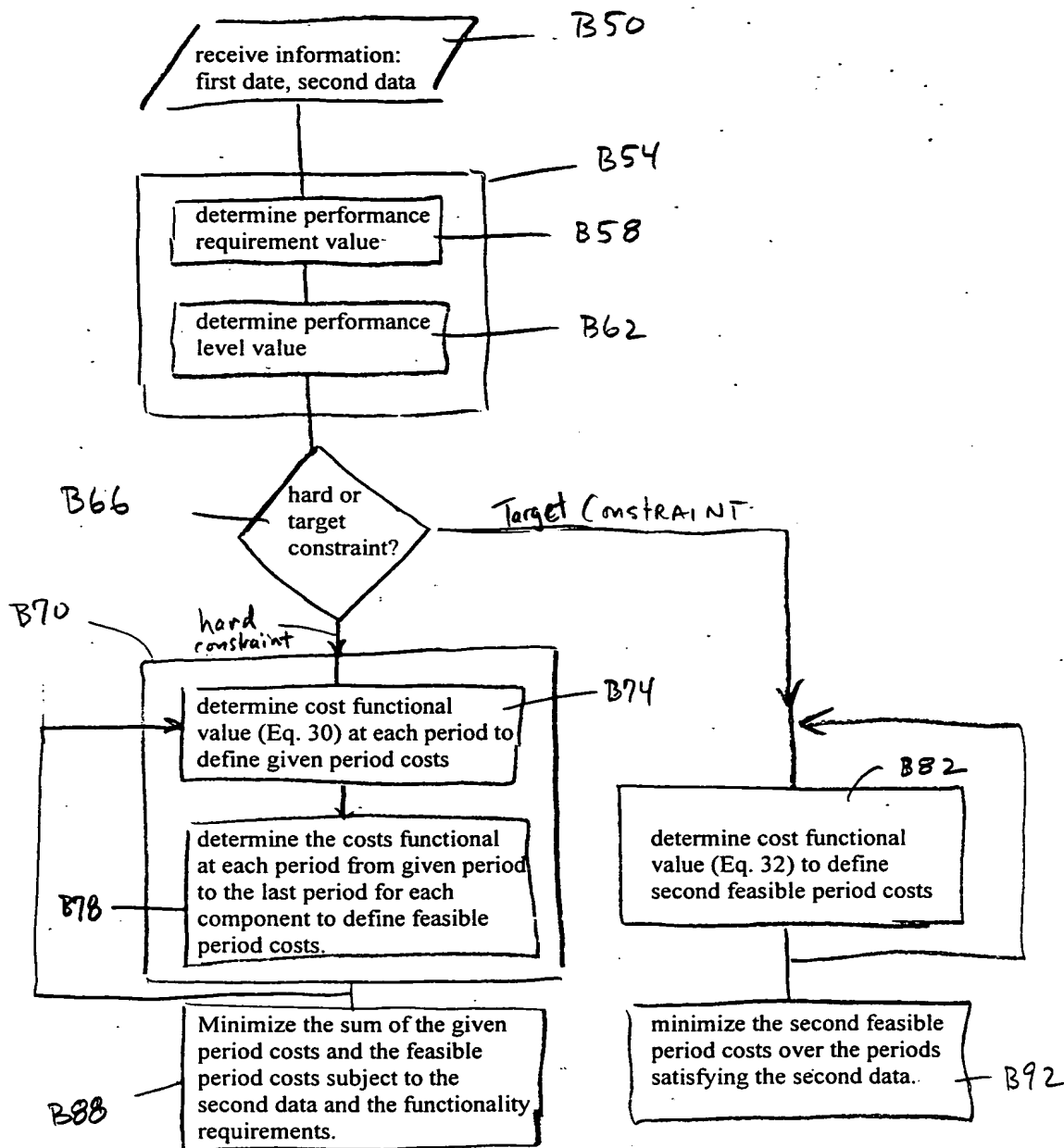


Figure 37

FOUO 4772650

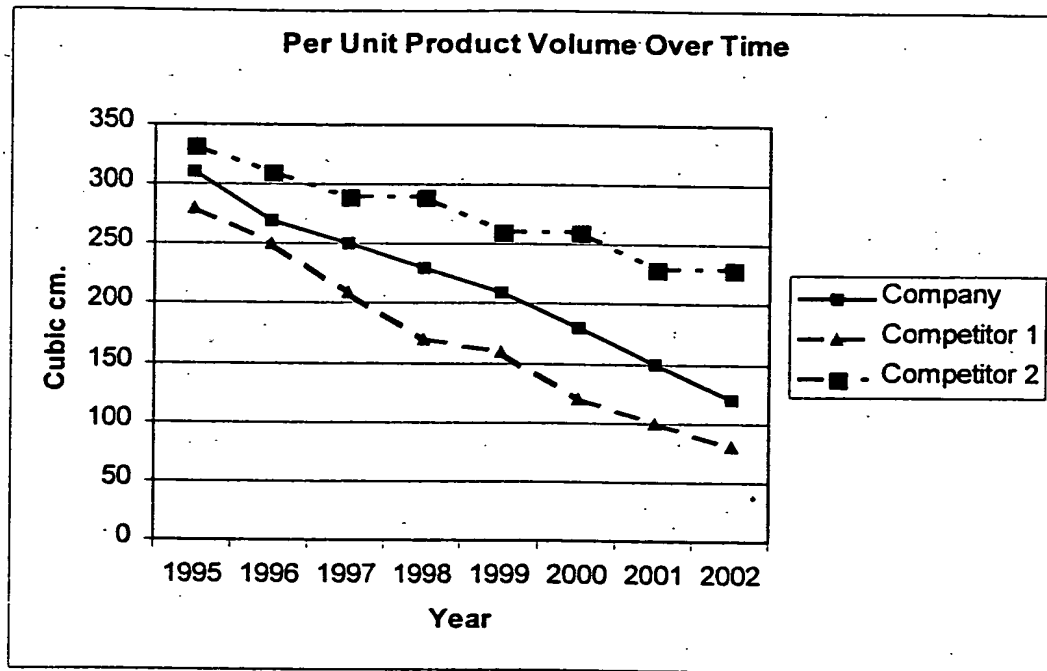


Fig. 38 Chart showing product volumes over time

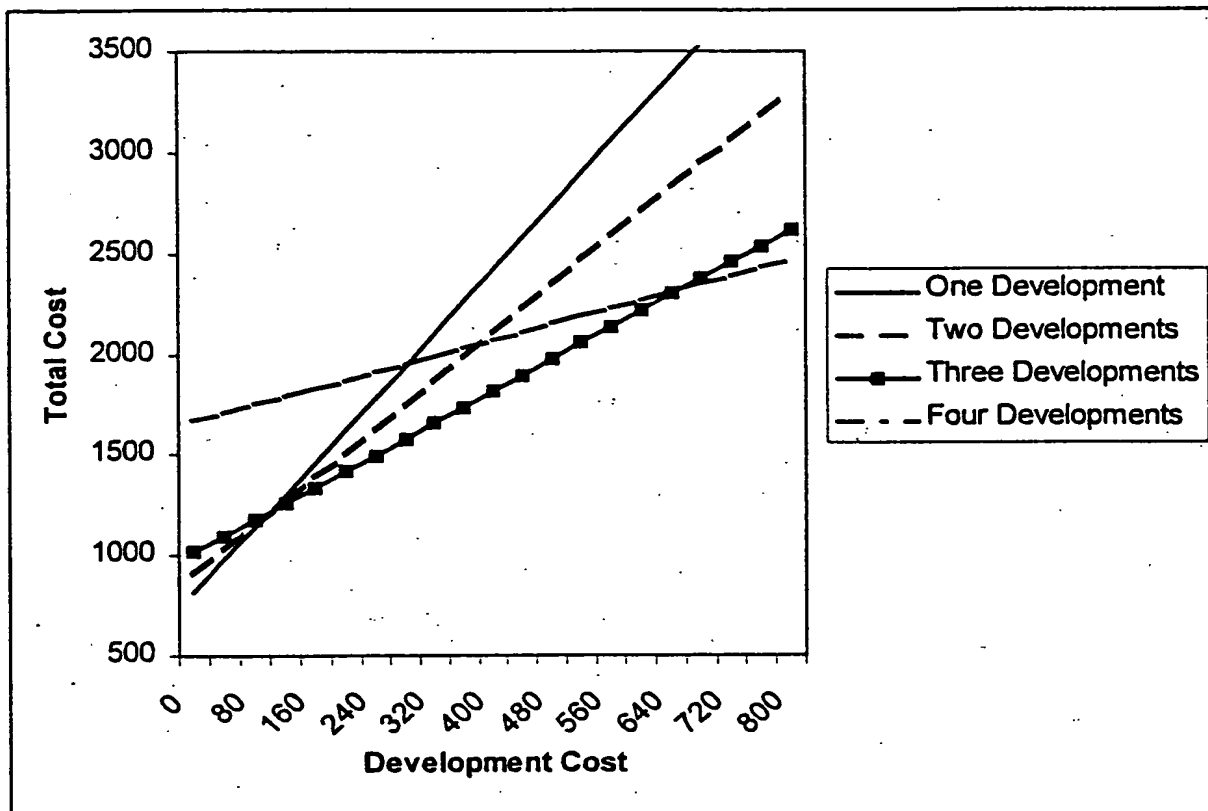


Fig. 39: Graphical Depiction of Efficient Frontier